

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Hoppensteadt et al.

Group Art Unit:

2121

Serial No.:

09/771,019

Examiner:

Hirl, Joseph P.

Filed:

January 26, 2001

Title:

PHASE-LOCKED LOOP OSCILLATORY NEUROCOMPUTER RECEIVED

JUL 2 6 2004 CERTIFICATE OF MAILING BY EXPRESS MAIL "Express Mail" mailing label number EL919126373US Technology Center 2100

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- 1. Response to Official Action (15 pages);
- 2. Request for Continued Examination (RCE) (1 page);
- 3. Information Disclosure Statement with Form 1449 (2 pages) and copies of 4 references:
- Fee Transmittal form (1 page in duplicate); 4.
- 5. Check for \$471.00; and
- 6. A return receipt postcard,

in an envelope addressed to:

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Alexandria, VA 22313-1450

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Hoppensteadt et al. 09/771,019 Applicant: Serial No. Filing Date:

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January 26, 2001 Phase-Locked Loop Oscillatory Neurocomputer 9138-0023US Docket No:

JUL 2 1 2004 PADEMARK OF

JUL 2 6 2004

Technology Center 2100

PTO/SB/17 (10-03)
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## FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27 (\$) 471 TOTAL AMOUNT OF PAYMENT

Complete if Known					
Application Number	09/771,019				
Filing Date	1/26/2001				
First Named Inventor	Hoppensteadt et al.				
Examiner Name	HITI, Joseph RECEIVE				
Art Unit	2121				
Attorney Docket No.	9138-0023US JUL 2 6 2004				

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X Check   Credit card   Money   Other   None   Order   None   Order	MIETHOD OF PATWIENT (check all that apply)		FE	E CALCULATION (continued)	Cantar 1
	X Check Credit card Money Other None	3. ADDITIONAL FEES			
Code (\$)					
Number   Callagher & Kennedy	Deposit 070135		1	Fee Description	Fee Paid
Account Name The Director is authorized to: (check all that apply) Charge fee(s) indicated below	Account	1051 130	2051 65	Surcharge - late filing fee or oath	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below	Account   Gallagher & Kennedy, P.A.	1052 50	2052 25		
Charge fee(s) indicated below		1053 130		• •	<del></del>
Charge feels (s) indicate below, except for the filing fee		1812 2,520	1812 2,520	For filing a request for ex parte reexamination	<b>├</b>
The above-identified deposit account.		1804 920*	1804 920		
Test   The provisional filing fee   The pro		1805 1,840*	1805 1,840		
1. BASIC FILING FEE   arge Entity   Small Entity   Fee   F	FEE CALCULATION	1251 110	2251 55	Extension for reply within first month	
1253 950   2253 475   Extension for reply within third month   1254 1,480   2255 740   Extension for reply within first month   1255 2,010   1254 1,480   1255 2,010   1255		1252 420	2252 210	Extension for reply within second month	<b>├──</b> ┤┃
1254 1,480   2254 740   Extension for reply within fourth month   1255 2,010   12		1253 950	2253 47	5 Extension for reply within third month	<u> </u>
1001 770   2001 385   Utility filing fee   1002 340   2002 170   Design filing fee   1401 330   2401 165   Notice of Appeal   1402 330   2402 165   Filing a brief in support of an appeal   1402 330   2402 165   Filing a brief in support of an appeal   1403 320   2402 165   Filing a brief in support of an appeal   1403 290   2403 145   Request for oral hearing   1405 1,510   Petition to institute a public use proceeding   1405 1,510   Petition to revive - unavoidable   1405 1,510   Petition to revive - u	Fee Fee Fee Fee Description Fee Paid	1254 1,480	2254 740	Extension for reply within fourth month	
1002 340   2002 170   Design filing fee   1401 330   2401 165   Notice of Appeal   1402 330   2402 165   Filing a brief in support of an appeal   1403 290   2403 145   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1451 1,510   Petition to revive - unavoidable   1452 110   2452 55   Petition to revive - unavoidable   1453 1,330   2401 165   Notice of Appeal   1402 330   2402 165   Filing a brief in support of an appeal   1403 290   2403 145   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1452 110   2452 55   Petition to revive - unavoidable   1453 1,330   2401 165   Notice of Appeal   1402 330   2402 165   Filing a brief in support of an appeal   1403 290   2403 145   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1452 110   2452 55   Petition to revive - unavoidable   1453 1,330   2401 165   Notice of Appeal   1402 330   2402 165   Filing a brief in support of an appeal   1403 290   2403 145   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1452 110   2452 55   Petition to revive - unavoidable   1453 1,330   2401 165   Notice of Appeal   1402 330   1455   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1452 110   2452 55   Petition to revive - unavoidable   1453 1,330   2452 55   Petition to revive - unavoidable   1453 1,330   2452 255   Petition to revive - unavoidable   1453 1,330   2452 255   Petition to revive - unavoidable   1453 1,330   2452 255   Petition to revive - unavoidable   1453 1,330   2452 255   Petition to revive - unavoidable   1453 1,330   2452 255   Petition to revive - unavoidable   1453 1,330   2452 255   Petition to revive - unintentional   1452 110   2452 250   Petition to revive - unintentional   1453 1,330   2401   1453 1,330   2401   1453 1,330   2401   1453 1,330   2402 240   Design issue fee   1453 1,330   2402 240   Petition to revive - unintentional   1453 1,330   2402 240   Pe		1255 2,010	2255 1,00	5 Extension for reply within fifth month	
1003 530		1401 330	2401 16	5 Notice of Appeal	
1403   290   2403   145   Request for oral hearing   1451   1,510   Petition to institute a public use proceeding   1451   1,510   1451   1,510   Petition to revive - unavoidable   1452   110   2452   55   Petition to revive - unavoidable   1453   1,330   2453   665   Petition to revive - unintentional   1451   1,510   Petition to revive - unintentional   1452   110   2452   55   Petition to revive - unintentional   1451   1,510   Petition to revive - unavoidable   1451   1,510   Petition to revive - unavoidable   1451   1,510   Petition to revive - unavoidable   1452   1,330   2453   665   Petition to revive - unintentional   1451   1,510   Petition to revive - unavoidable   1453   1,330   2453   665   Petition to revive - unintentional   1451   1,510   Petition to revive - unavoidable   1453   1,330   2453   665   Petition to revive - unintentional   1451   1,510   Petition to revive - unavoidable   1453   1,330   2453   665   Petition to revive - unintentional   1451   1,510   Petition to revive - unavoidable   1453   1,330   2453   665   Petition to revive - unintentional   1451   1,510   Petition to revive - unavoidable   1453   1,350   2453   665   Petition to revive - unintentional   1453   1,350   2453   665   Petition to revive - unintentional   1453   1,350   2453   665   Petition to revive - unintentional   1453   1,350   2453   665   Petition to revive - unintentional review - unintentional   1453   1,350   2450   240   2503   320   Pet		1402 330		· ·	
SUBTOTAL (1) (\$)  2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from below Fee Paid Independent Claims Independent Claims Multiple Dependent Varie Fee Fee Code (\$)  1202 18 2202 9 Claims in excess of 20 1203 290 2203 145 Multiple dependent claims over original patent  1205 18 2205 9 ** Reissue independent claims over original patent  SUBTOTAL (2) (\$)  86 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Petition to revive - unavoidable 1453 1,330 2453 665 Petition to revive - unintentional 1450 1,510 1,330 2501 665 Utility issue fee (or reissue) 1502 480 2502 240 Design issue fee 1503 640 2503 320 Plant issue fee 1460 130 1460 130 Petitions to the Commissioner 1501 1,330 2501 665 Utility issue fee (or reissue) 1502 480 2502 240 Design issue fee 1503 640 2503 320 Plant issue fee 1503 640 2503 320 Plant issue fee 1504 860 180 Submission of Information Disclosure Stmt 1807 50 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 1806 180 Submission of Information Disclosure Stmt 1802 40 Recording each patent assignment per property (times number of properties) 1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(b)) 1801 770 2810 385 Request for Continued Examination (RCE) 385 1802 900 1802 900 Request for expedited examination of a design application  Other fee (specify)  **Reduced by Basic Filing Fee Paid (40 PR 2017) 1807 (1807) 1		1403 290	2403 14	5 Request for oral hearing	
SUBTOTAL (1) (\$) 1452 110 2452 55 Petition to revive - unavoidable 1453 1,330 2453 665 Petition to revive - unintentional 2501 1,330 2501 665 Utility issue fee (or reissue) 1502 480 2502 240 Design issue fee 1503 640 2503 320 Plant issue fee 1503 640 2503 320 Plant issue fee 1503 640 130 Petitions to the Commissioner 1606 180 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.17(q) 1806 180 Submission of Information Disclosure Stmt 1807 50 Processing fee under 37 CFR 1.12(q) 1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a)) 1809 770 2801 385 For each additional invention to be examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request Filips Fee Paid (47 CP) 1801 1802 900 Request Filips Fee Paid (48 CURTOTAL (49) 1801 1801 770 2801 1802 900 Request Filips Fee Paid (48 CURTOTAL (49) 1801 1801 770 2801 1802 900 Request Filips Fee Paid (48 CURTOTAL (49) 1801 1801 Filips Fee Paid (48 CURTOTAL (49) 1801 18		1451 1,510	1451 1,51	0 Petition to institute a public use proceeding	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from Lextra Claims below Fee Paid  Total Claims -20** = X 43 = 86 Independent -3** = Z X 43 = 86 Independent -3** = Z X 43 = 86 Independent -3** = Z X 43 = 86 Independent -3** = X -43 = 86 Independent -40** = Indepndent -40** = Independent -40** = Independent -40** = Independen		1452 110	2452 5	5 Petition to revive - unavoidable	
Extra Claims below Fee Paid  Total Claims		1453 1,330	2453 66	5 Petition to revive - unintentional	
Total Claims		1501 1,330	2501 66	5 Utility issue fee (or reissue)	<u>                                     </u>
Independent Claims  Multiple Dependent  Large Entity   Small Entity   Small Entity   Fee Fee   Fee Fee   Code (\$)   Code (\$)    1202	Ext <u>ra Claims below Fee Paid</u>	1502 480	2502 24	0 Design issue fee	
Claims Multiple Dependent  Large Entity   Small Entity   Small Entity   Fee Fee Code (\$)   Code (\$)    1202 18   2202 9   Claims in excess of 20    1201 86   2201 43   Independent claims in excess of 3    1203 290   2203 145   Multiple dependent claims over original patent    1204 86   2204 43   **Reissue claims in excess of 20    1205 18   2205 9   **Reissue claims in excess of 20   and over original patent    1206 180   1806 180   Submission of Information Disclosure Stmt    1807 50   Processing fee under 37 CFR 1.17(q)    1808 180   Submission of Information Disclosure Stmt    1809 770   2809 385   Filing a submission after final rejection (37 CFR 1.129(a))    1809 770   2810 385   For each additional invention to be examined (37 CFR 1.129(b))    1809 770   2810 385   For each additional invention to be examined (37 CFR 1.129(b))    1809 770   2810 385   For each additional invention to be examined (37 CFR 1.129(b))    1809 770   2810 385   For each additional invention to be examined (37 CFR 1.129(b))    1809 770   2810 385   For each additional invention to be examined (37 CFR 1.129(b))    1801 770   2801 385   Request for Continued Examination (RCE)    1801 770   2801 385   Request for expedited examination of a design application    1801 770   2801 385   Request for expedited examination of a design application    1801 770   2801 385   Request for expedited examination of a design application    1801 770   2801 385   Request for expedited examination    1801 770   2801 385   Request for expedited examination    1802 900   Request for expedited examination    1803 900   Request for expedited examination    1804 900   Request for expedited examination    1805 1807   Reduced by Basic Filing Fee Paid    1806 180   Recording each patent    1807 70   2809 385   Filing Fee Paid    1808 1809   Recording each patent    1809 770   2809 385   Filing Fee Paid    1809 770   Recording each patent    1809 770   2809 385   Filing Fee Paid    1809 770   Recording each patent    1809 770   2809 385   Filing Fee Paid    18	Independent 3	1503 640	2503 32	0 Plant issue fee	
Large Entity   Small Entity   Small Entity   Fee Fee Fee Code (\$)	Claims 3 =	1460 130	1460 13	0 Petitions to the Commissioner	
Fee Fee Code (\$)  1202 18  1202 9 Claims in excess of 20  1201 86  1202 14 Independent claims in excess of 3  1203 290  1204 86  1204 43  1205 18  1205 18  1205 18  1206 (\$)  1207 18  1208 18  1209 18	Multiple Dependent	1807 50	1807 5	0 Processing fee under 37 CFR 1.17(q)	
Code (\$)  Code (		1806 180			
1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claims, if not paid 1204 86 2204 43 ** Reissue independent claims over original patent over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 86  1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))  1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE) 385  1809 770 0 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))  1809 770 0 2810 385 For each additional invention to be examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE) 385  1809 770 0 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))  1809 770 0 2810 385 For each additional invention to be examined (37 CFR 1.129(b)) 1801 770 2801 385 Request for Continued Examination of a design application  Other fee (specify)  **Reduced by Basic Filing Fee Paid (CURTOTAL (2)) (70)	Code (\$) Code (\$)	8021 40	8021 4	Recording each patent assignment per property (times number of properties)	
2204 43 ** Reissue independent claims over original patent   1801 770   2801 385 Request for Continued Examination (RCE)   385   1205 18   2205 9 ** Reissue claims in excess of 20 and over original patent   1802 900 1802 900 Request for expedited examination of a design application   2801 385   2		1809 770	2809 38		
1204 86 2204 43 Reissue independent daims over original patent over original patent 1801 770 2801 385 Request for Continued Examination (RCE) 385  1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1802 900 1802 900 Request for expedited examination of a design application 1802 900 Other fee (specify) 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination of a design application 1802 900 Request for expedited examination		1810 770	2810 38		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent  SUBTOTAL (2) (\$) 86 1802 900 1802 900 Request for expedited examination of a design application  Other fee (specify)  *Reduced by Basic Filing Fee Paid CURTOTAL (2) (7) 3.95		1801 770	2801 38	· · · · · · · · · · · · · · · · · · ·	385
SUBTOTAL (2) (\$) 86 *Reduced by Basic Filing Fee Paid CURTOTAL (2) (\$) 395		1802 900	1802 90		
* * Peduced by Basic Filing Fee Paid Cultivates (a) 1/6) 2.05.11	[	Other fee (sp	oecify)		L
	· · · · · · · · · · · · · · · · · · ·	*Reduced by	y Basic Filing	Fee Paid SUBTOTAL (3) (\$)	385

(Complete (if applicable)) SUBMITTED BY Registration No. 24,583 Tbomas D. MacBlain Telephone 602-530-8088 Name (Print/Type) (Attornev/Agent) Date 7/21/2004 Signature

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